Comparisons of Job Characteristics

Focus Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)
Associated Occupation: Model Makers, Metal and Plastic (51-4061)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge — Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)
Associated Occupation: Model Makers, Metal and Plastic (51-4061)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	16.9	12.6	<<	Extensive education and/or training may be required
Production and Processing	6.0	12.5	10.9	<	Expanded education and/or training may be required
Mathematics	9.2	11.7	9.8	<	Expanded education and/or training may be required
Design	5.2	11.6	5.4	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	9.6	5.6	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills — Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)
Associated Occupation: Model Makers, Metal and Plastic (51-4061)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation and Control	5.4	10.6	8.7	<	A higher skill level may be required
Quality Control Analysis	5.9	9.8	8.8	<	A higher skill level may be required
Operation Monitoring	6.6	9.7	9.7	0	Current skill level may be sufficient
Troubleshooting	4.5	8.4	7.6	<	A higher skill level may be required
Equipment Selection	3.3	8.0	3.8	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	6.7	5.9	<	A higher skill level may be required

The maximum possible rating is 25.

Abilities — Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)
Associated Occupation: Model Makers, Metal and Plastic (51-4061)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Reaction Time	4.8	11.6	7.5	<<	Extensive improvement in abilities may be required
Visualization	7.5	11.6	8.1	<<	Extensive improvement in abilities may be required
Control Precision	6.6	10.7	10.5	0	Current ability level may be sufficient
Arm-Hand Steadiness	6.8	10.6	9.1	<	Some improvement in abilities may be required
Manual Dexterity	6.5	10.5	8.8	<	Some improvement in abilities may be required
Auditory Attention	5.9	9.1	8.1	<	Some improvement in abilities may be required
Rate Control	3.8	8.2	8.3	0	Current ability level may be sufficient
Wrist-Finger Speed	3.2	6.9	4.7	<<	Extensive improvement in abilities may be required
Dynamic Strength	3.5	6.6	4.5	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Activities that Both Occupations Have in Common — Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)
Associated Occupation: Model Makers, Metal and Plastic (51-4061)

Work Activities	Exclusivity of Activity
Adjust production equipment/machinery setup	25
Confer with engineering, technical or manufacturing personnel	25
Examine products or work to verify conformance to specifications	15
Monitor production machinery/equipment operation to detect problems	27
Operate metal or plastic fabricating equipment/machinery	54
Perform safety inspections in manufacturing or industrial setting	33
Read blueprints	10
Read technical drawings	7
Recognize characteristics of alloys	71
Recognize characteristics of metals	62
Set up computer numerical control machines	69

Set up production equipment or machinery	51
Understand technical operating, service or repair manuals	6
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: n/a

Focus Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)
Associated Occupation: Model Makers, Metal and Plastic (51-4061)

Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.